

**PUBLICATION LIST**  
**GEORGE T. LIGLER (January 2003)**

1. "A Mathematical Approach to Language Design", *Proceedings of the 2nd ACM SIGPLAN/SIGACT Symposium on Principles of Programming Languages*, Palo Alto, January 1975, 41-53.
2. Proof Rules, Mathematical Semantics, and Programming Language Design, Doctoral Thesis, Oxford University, 184 pp., 1975.
3. "Surface Properties of Programming Language Constructs", *Proceedings of the International Symposium on Proving and Improving Programs*, Arc-et-Senans, France, July 1975, IRIA, 299-323.
4. "On the Use of Mathematically Testable Criteria in the Design of Programming Languages for Reliable Software", 1976 *ACM Computer Science Conference*, Anaheim, February 1976.
5. "The Assignment Axiom and Programming Language Design", *Proceedings of the 1976 ACM National Conference*, ACM, New York, 2-6.
6. "TI Pascal Language Reference Manual" (with G.J. Hansen), Texas Instruments Technical Report, October 1977.
7. "The TI Pascal System: Run-Time Support" (with E.E. Ferguson), *Proceedings of the Eleventh Hawaii International Conference On System Sciences, Volume III: Selected Papers in Mini and Micro Computer Systems*, Honolulu, January 1978, 69-84.
8. "A Software Development Methodology: Issues, Techniques, and Tools" (with R.R. Bate), *Proceedings of the Eleventh Hawaii International Conference on System Sciences*, Honolulu, January 1978, 40-44.
9. "An Approach to Software Testing" (with R.R. Bate), *Proceedings of the Second IEEE International Computer Software and Applications Conference*, Chicago, November 1978, 476-480.
10. "The TI Microprocessor Pascal System" (with L.D. Kroeker, W. Merritt, and L. Spry), *MIDCON 78*, Dallas, December 1978.

11. "Concurrency Constructs for Programming Languages: Issues and Prognosis" (with D.J. Frailey and G.J. Hansen), 1979 Louisiana Microcomputer Conference.
12. "High Order Language Architectures for DoD Tactical Systems", *Proceedings of the 1979 National Aerospace and Electronics Conference, Volume II*, IEEE, New York, 691-694.
13. "Display Technology for Industrial Process Control" (with D.J. Winward), *Professional Program Session Record 19, MIDCON 83*, Chicago, September 1983.
14. "Toward an ATN Framework for Automated Reporting of Meteorological Data by Aircraft" (with A. Snively, D.J. Trombley, and R.D. Londot), *Proceedings of the Third Annual International Aeronautical Telecommunications Symposium on Data Link Integration*, McLean, Virginia, May 1991, 51-54.
15. "The Meteorological Data Collection and Reporting System: Status and Future Directions" (with D.L. Taylor and R.D. Londot), *Proceedings of the Fourth International Conference on Aviation Weather Systems*, Paris, France, June 1991, 144-146.
16. "The Meteorological Data Collection and Reporting System (MDCRS): System Overview and Benefits" (with R. Petersen, C. Dey, R. Martin, and R.D. Londot), *Proceedings of the National Weather Service Aviation Workshop*, Kansas City, December 1991, 251-255.
17. "Development of Minimum Aviation System Performance Standards for DGNSS Instruments Approach Systems (DIAS)" (with K.D. McDonald), *Proceedings of the 49th Annual Meeting of the Institute of Navigation*, Cambridge, Mass., June 21-23, 1993, 119-120.
18. "The RTCA Category II/III DGNSS Instrument Approach System Standards Development" (with K.D. McDonald), *Proceedings of the International Symposium on Precision Approach and Automatic Landing*, Braunschweig, Germany, February 1995, 67-73.
19. "Standards Development for Category II/III Precision Approach and Landing Using Differential GNSS; RTCA Activities and Status" (with K.D. McDonald), *Proceedings of the 51st Annual Meeting of the Institute of Navigation*, Colorado Springs, June 1995, 361-367.
20. "Electronic Data Distribution Service: Rationale and Benefits", *Workshop on Electronic Document Distribution*,

Newport Beach, California, February 27-28, 1996.

NOTES:

1. THE ABOVE DOES NOT INCLUDE TWO PUBLISHED Institute of Navigation (ION) ABSTRACTS AS FOLLOWS:

"A Status Report on the Development of Minimum Aviation System Performance Standards (MASPS) for a GNSS-based Special Category I (SCAT-I) Precision Approach System", (with K.D. McDonald), *Proceedings of the 1993 National Technical Meeting of the Institute of Navigation*, San Francisco, California, January 20-22, 1993, p.425 (Abstract Only).

"The RTCA Special Category I Differential GPS Instrument Approach System Standards and Future Development of DGNSS-aided Category II and III Precision Approach Standards" (with Keith D. McDonald), *Proceedings of the ION GPS-93 Meeting*, Salt Lake City, Utah, September 22-24, 1993, p.851 (Abstract Only).

2. THE ABOVE LIST ALSO DOES NOT INCLUDE A NUMBER OF RTCA AND International Civil Aviation Organization (ICAO) WORKING AND INFORMATION PAPERS, E.G.:

Additionally, Dr. Ligler has drafted numerous working papers for ICAO and RTCA meetings. Exemplary working papers include:

**ICAO Aeronautical Mobile Communications Panel (AMCP) Working Group C, October 2002**

Requirements and Desirable Features for the Universal Access Transceiver (UAT) System

**ICAO AMCP Working Group of the Whole, May 2002**

1. Status of Universal Access Transceiver (UAT) MOPS
2. Candidate ADS-B Radio Frequency Links: Findings of the Technical Link Assessment Team (TLAT) and Post TLAT Developments

**RTCA Global Navigation Satellite System (GNSS) Task Force (in addition to Task Force editorial committee and terminal area (technical) drafting group assignments)**

1. GNSS Accuracy, Availability, and Integrity (Washington, July 9-10, 1992: Technical Working Group Meeting).
3. Communications to Support Applications of GNSS in the Terminal Area (Dallas-Fort Worth, April 27-28, 1992: Terminal Area Subgroup Meeting).

**February 1992 London Meeting of the ICAO FANS GNSS Technical Subgroup:**

1. Differential GNSS (co-authored)
2. Costs of a Worldwide GNSS Integrity Monitoring Network (co-authored by Aeronautical Radio, Inc. and France)
3. GNSS Definitions (co-authored with U.S., IATA, and French delegations).

**December 1991 Montreal Meeting of the ICAO World Area Forecast System Study Group:**

Automated Aircraft Meteorological Reports: 1995 projections (co-authored).

**1990 ICAO Communications/Meteorology/Operations Division Meeting**

{Upper Air Forecast Grid Paper}